

METHOD FOR AUTHENTICATING DUAL-MODE ACCESS TERMINALS

ABSTRACT OF THE DISCLOSURE

5 A method is provided for operating a dual-mode access terminal such that a CAVE
based authentication process may be used in both an IS-2000 and an HRPD mode of
operation. Generally, the access terminal receives a CHAP challenge from an access
network, and then derives a RAND challenge based on at least a portion of the CHAP
challenge. The CAVE based authentication process is then performed using the RAND
10 challenge to produce a SMEKEY and a PLCM. Thereafter a secret CHAP key is derived
from the SMEKEY and PLCM and provided to the access network for purposes of
authenticating the access terminal in the HRPD mode of operation.